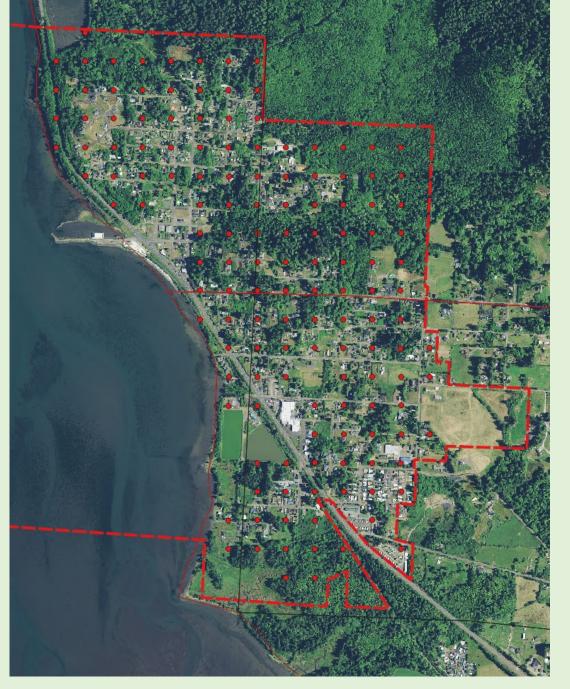
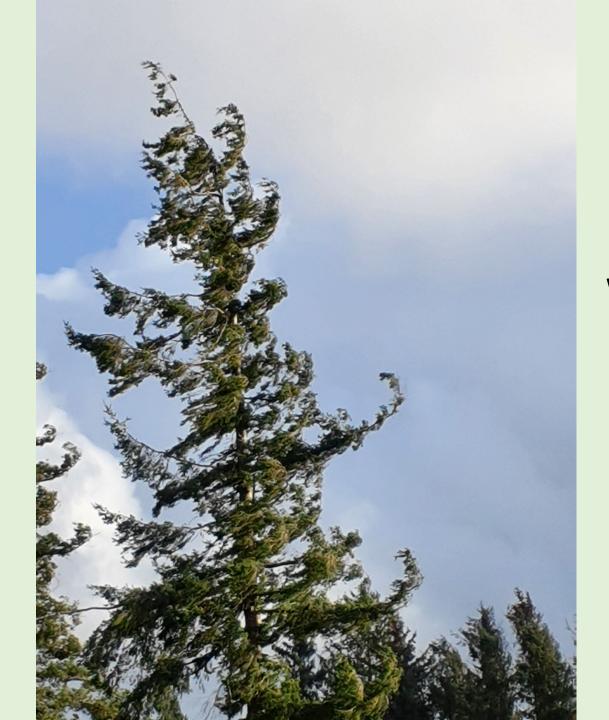
City of Bay City Wildfire Risk Assessment



- Plots on about 450' by 450' spacing
- Did not trespass, looked at from street or right-of-way
- Assessed for vegetation, slope and aspect
- Given a flame length thinking about worst fire conditions possible. ie: very dry and windy
- Photo taken at most spots



Windy day on 1/9/2023 similar to what wildfire conditions can be like

Flame length		Fireline intensity		Interpretation	
ft	m	Btu/ft/s	kJ/m/s		
< 4	< 1.2	< 100	<350	S	Fires can generally be attacked at the head or flanks by persons using hand tools. Hand line should hold the fire.
4 – 8	1.2 – 2.4	100 – 500	350 – 1700		 Fires are too intense for direct attack on the head by persons using hand tools. Hand line cannot be relied on to hold the fire. Equipment such as dozers, pumpers, and retardant aircraft can be effective.
8 – 11	2.4 - 3.4	500 – 1000	1700 – 3500	₽	Fires may present serious control problems—torching out, crowning, and spotting. Control efforts at the fire head will probably be ineffective
> 11	> 3.4	> 1000	> 3500	53°X	Crowning, spotting, and major fire runs are probable. Control efforts at head of fire are ineffective.

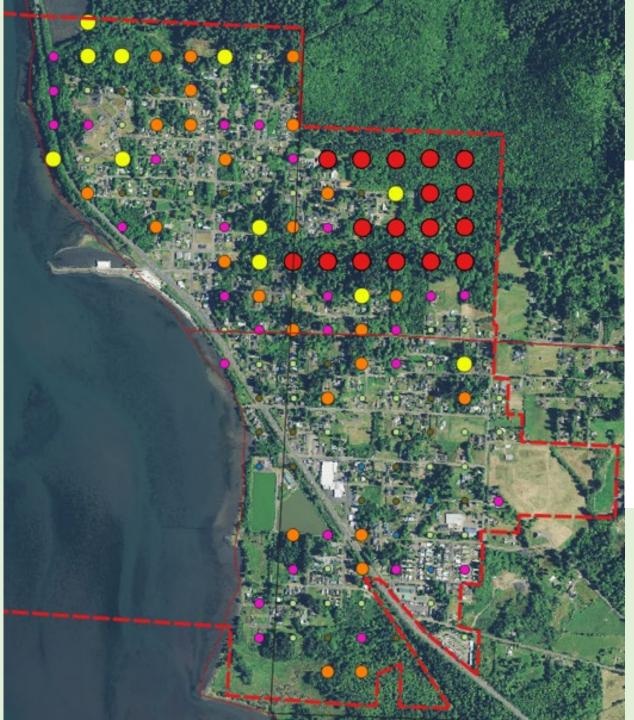
Table 1—Relationship of surface fire flame length and fireline intensity to suppression interpretations.

Andrews, Patricia L.; Heinsch, Faith Ann; Schelvan, Luke. 2011. How to generate and interpret fire characteristics charts for surface and crown fire behavior. Gen. Tech. Rep. RMRS-GTR-253. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 40 p.



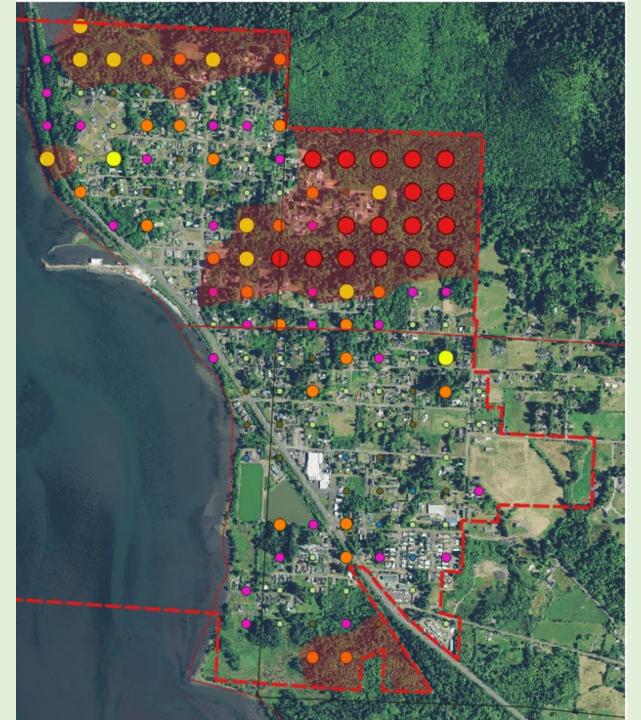






City of Bay City - Wildfire Risk Assessment Initial data by fire intensity/ flame length January 16, 2023

Flame length under extreme fire conditions						
Feet	Color	Size				
0	Blue	small				
0-2	Light green	small				
2-4	Brown	small				
4-6	Purple	medium				
6-8	Orange	medium larger				
8-10	Burnt orange	medium larger				
10-12	Yellow	less large				
12 +	Red	large				



Shaded red at higher wildfire risk under extreme fire weather "RED FLAG" conditions

Also need to think about the likelihood of a fire starting. Probably less likely from the Forest, probably more likely from Hwy 101 or other human cause.



Wildfire risk plus 1/8 mile (660 feet)